

Date of Deposit: August 30, 2001

Please type a plus sign (+) in this box

+

AUG 30 2001

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

PTO SB (12-97)
 Approved for use through 9/30/01 OMB # 5010-0001
 Patent and Trademark Office U.S. DEPARTMENT OF COMMERCE

Modified Form 1449-PTO

**INFORMATION DISCLOSURE
 STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Application Number	09 804,615
Filing Date	March 12, 2001
First Named Inventor	Johansen, <i>et al</i>
Group Art Unit	1646 16 47
Examiner Name	Not Yet Assigned L-H/M/MAK
Attorney Docket Number	00689-511 (BGN-11 CIP)

U.S. PATENT DOCUMENTS

Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate
B2	A1*	5,084,350	1/28/92	Chang, <i>et al.</i>	-	-	2/16/90
	A2*	4,883,666	11/28/89	Sabel, <i>et al.</i>	-	-	4/29/87
	A3*	5,284,761	2/8/94	Aebischer, <i>et al.</i>	-	-	2/26/92
	A4*	5,618,531	4/8/97	Cherksey	-	-	7/13/93
	A5*	5,916,555	6/29/99	Lee, <i>et al.</i>	-	-	10/30/97
	A6*	5,834,029	10/10/98	Bellamkonda, <i>et al.</i>	-	-	7/20/94
	A7*	5,496,804	3/5/96	Reed, <i>et al.</i>	-	-	10/21/94
	A8*	5,795,716	8/18/98	Chee, <i>et al.</i>	-	-	10/21/94
	A9*	5,754,524	5/19/98	Wark	-	-	10/30/96
	A10*	5,733,729	3/31/98	Lipshutz, <i>et al.</i>	-	-	9/14/95
✓	A11*	5,800,992	9/1/98	Fodor, <i>et al.</i>	-	-	6/25/96

FOREIGN PATENT DOCUMENTS

Exam Initials	Cite No.	Foreign Patent Document Office Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes	No
B2	B1*	WO 93 06116	Lin, <i>et al.</i>	4/1/93	X	
	B2*	WO 97 08196	Johnson, <i>et al.</i>	3/6/97	X	
	B3*	WO 98 32869	Johansen, <i>et al.</i>	7/30/98	X	
✓	B4*	WO 00 04050	Janssen Pharmaceutica N.V.	1/27/00	X	

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
B2	C1*	Sauer and Oertel, 1994. Progressive degeneration of nigrostriatal dopamine neurons following intrastriatal terminal lesions with 6-hydroxydopamine: a combined retrograde tracing and immunocytochemical study in the rat. <i>Neuroscience</i> 59 : 401-415
	C2*	Baloh, <i>et al.</i> , 1998. Artemin, a novel member of the GDNF ligand family, supports peripheral and central neurons and signals through the GFRα3-RET receptor complex. <i>Neuron</i> 21 : 1291-1302
	C3*	Milbrandt, <i>et al.</i> , 1998. Persephin, a novel neurotrophic factor related to GDNF and neurturin. <i>Neuron</i> 20 : 245-253
	C4*	Airaksinen, <i>et al.</i> , 1999. GDNF family neurotrophic factor signaling: Four masters, one servant? <i>Mol. Cell. Neurosci.</i> 13 : 313-325
✓	C5*	Atschul, <i>et al.</i> , 1997. Gapped BLAST and PSI-BLAST: a new generation of protein database search programs. <i>Nucl. Acids Res.</i> 25 : 3389-3402

RECEIVED

 SEP 05 2001
 PTO CENTER 1600 1600

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
13C	C6*	Thompson, <i>et al.</i> , 1997. The ClustalX windows interface: flexible strategies for multiple sequence alignment aided by quality analysis tools. <i>Nuc. Acids Res.</i> 25 : 4876-4882.
	C7*	Eigenbrot and Gerber, 1997. X-ray structure of glial cell-derived neurotrophic factor at 1.9 Å resolution and implications for receptor binding. <i>Nat. Struct. Biol.</i> 4 : 435-438.
	C8*	Lorenz, <i>et al.</i> , 1996. Heteromultimeric ClC chloride channels with novel properties. <i>Proc. Natl. Acad. Sci. USA</i> 93 : 13362-13366.
	C9*	Borodovsky, <i>et al.</i> , 1995. Detection of new genes in a bacterial genome using Markov models for three gene classes. <i>Nucl. Acids Res.</i> 23 : 3554-3562.
	C10*	Finsen, <i>et al.</i> , 1992. Somatostatin and neuropeptide Y in organotypic slice cultures of the rat hippocampus: an immunocytochemical and in situ hybridization study. <i>Neurosci.</i> 47 :105-113.
	C11*	Slooth and Gramsbergen, 1995. Detection of salicylate and its hydroxylated adducts 2,3- and 2,5-dihydroxybenzoic acids as possible indices for in vivo hydroxyl radical formation in combination with catechol- and indoleamines and their metabolites in cerebrospinal fluid and brain tissue. <i>J. Neurosci. Meth.</i> 60 : 141-149.
	C12*	Daopin, <i>et al.</i> , 1993. Crystal structure of TGF-β2 refined at 1.8 Å resolution. <i>Proteins</i> 17 : 176-192.
	C13*	Sanicola, <i>et al.</i> , 1997. Glial cell line-derived neurotrophic factor-dependent RET activation can be mediated by two different cell-surface accessory proteins. <i>Proc Natl Acad Sci USA</i> 94 : 6238-6243.
	C14*	Stoppini, <i>et al.</i> , 1991. A simple method for organotypic cultures of nervous tissue. <i>J. Neurosci. Methods</i> 37 : 173-182.
	C15*	Zufferey, <i>et al.</i> , 1997. Multiply attenuated lentiviral vector achieves efficient gene delivery in vivo. <i>Nat. Biotechnol.</i> 1997 15 : 871-875.
	C16*	von Schwedler, <i>et al.</i> , 1993. Vif is crucial for human immunodeficiency virus type 1 proviral DNA synthesis in infected cells. <i>J. Virol.</i> 67 : 4945-4955.
	C17*	Masure <i>et al.</i> , <i>Enovin, a member of the glial cell-line-derived neurotrophic factor (GDNF) family with growth promoting activity on neuronal cells.</i> <i>Eur. J. Biochem.</i> 266: 892-902 (1999).
	C18*	Robertson and Manson, <i>The GDNF-RET signalling in partnership.</i> <i>Trends Genet.</i> 13: 1-3 (1997).
	C19*	Lapchak, <i>Therapeutic potentials for glial cell line-derived neurotrophic factor (GDNF) based upon pharmacological activities in the CNS.</i> <i>Rev. Neurosci.</i> 7: 165-176 (1997).
	C20*	Unsicker, <i>GDNF: a cytokine at the interface of TGF-betas and neurotrophins.</i> <i>Cell Tissue Res.</i> 286: 175-178 (1996).
↓	C21*	Lapchak, <i>et al.</i> , <i>Pharmacological characterization of glial cell line-derived neurotrophic factor (GDNF): implications for GDNF as a therapeutic molecule for treating neurodegenerative diseases.</i> <i>Cell Tissue Res.</i> 286: 179-189 (1996)
	C22*	Nucleotide Sequence Database EMBL Entry AA844072, Accession No. AA844072.
13C	C23*	Massagué, <i>et al.</i> , 1994. The TGF-β family and its composite receptor. <i>Trends Cell Biol.</i> 4 : 172-178.
↓	C24*	McDonald & Hendrickson, 1993. A structural superfamily of growth factors containing a cystine knot motif. <i>Cell</i> 73 : 421-424.
↓	C25*	Lin, <i>et al.</i> , 1993. GDNF: A glial cell line-derived neurotrophic factor for midbrain dopaminergic neurons. <i>Science</i> 260 : 1130-1132.

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. 09/347,613, filed July 2, 1999, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	8/21/03
--------------------	--	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.

TRA 1561248v1

RECEIVED
SEP 05 2001
TECH CENTER 1600/2900

Please type a plus sign (+) in this box ☐

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Modified Form 1449/PTO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Application Number	09/804,615
	Filing Date	03/12/01
	First Named Inventor	Johansen
	Group Art Unit	1647
	Examiner Name	Robert S. Landsman
	Attorney Docket Number	00689-511 CIP (C045 CIP)

U.S. PATENT DOCUMENTS							
Exam Initials	Cite No.	U.S. Patent Document No.	Issue Date	Name of Patentee(s) or Applicant(s)	Class	Sub Class	Filing Date If Appropriate

FOREIGN PATENT DOCUMENTS							
Exam Initials	Cite No.	Foreign Patent Document Office	Number	Name of Patentee(s) or Applicant(s)	Date of Publication	Translation Yes No	
B5	B5	WO	97/11964	Amgen, Inc.	April 3, 1997		
B6	B6	WO	00/01815	Neurosearch	January 13, 2000		
B7	B7	WO	00/18799	Washington University	April 6, 2000		
B8	B8	WO	00/34475	Amgen, Inc.	June 15, 2000		
B9	B9	WO	00/73348	Genentech, Inc.	December 7, 2000		

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exam Initials	Cite No.	Name of Author, Title (when appropriate), Publication, Volume, Page(s), Date, Etc.
B26	C26	Saarna and Sariola (1999). <i>Microscopy Res. & Technique</i> 45: 292-302.
	G27	International Search Report for PCT/EP02/02691, mailed December 20, 2002.

* a copy of this reference is not provided as it was previously cited by or submitted to the office in a prior application, Serial No. _____, filed _____, and relied upon for an earlier filing date under 35 U.S.C. §120 (continuation, continuation-in-part, and divisional applications).

Examiner Signature		Date Considered	3/21/03
--------------------	---	-----------------	---------

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered.

Include copy of this form with next communication to applicant.